

**AMENDMENTS TO THE CLAIMS WITH MARKINGS TO SHOW CHANGES  
MADE, AND LISTING OF ALL CLAIMS WITH PROPER IDENTIFIERS**

1.-34. (Canceled)

35. (New) An impacting instrument for action on a movable object, comprising:
- a handling part;
  - an impact part which enters into dynamic operative contract with the object during active use; and
  - an actuating part having a length and a center and a first end coupled to the impact part and a second end coupled to the handling part, said actuating part comprising a plurality of active elements which are arranged between the first end and the second end at uniformly spaced locations, with a spacing between the locations and between a location and an adjacent end, respectively, following a harmonic series  $l/n$ , wherein  $l$  is the length of the actuating part, and  $n$  is an integer index  $n \geq 2$ .
36. (New) The impacting instrument of claim 35, wherein the active elements are placed at locations defined by two or more harmonic series  $l/n$  having a different integer index  $n \geq 2$ .
37. (New) The impacting instrument of claim 35, wherein an active element differs from an adjacent active element by at least one physical parameter selected from the group consisting of mass, mass density, stiffness and damping.
38. (New) The impacting instrument of claim 35, wherein the active elements are formed over less than the length of the actuating part.

39. (New) The impacting instrument of claim 35, wherein the actuating elements are formed by applying an additional element on or over the actuating part at the predefined locations.
40. (New) The impacting instrument of claim 35, wherein the actuating elements are formed by removing material from the actuating part at the predefined locations.
41. (New) The impacting instrument of claim 35, wherein the actuating elements have a substantially equal length independent of their location on the actuating part.
42. (New) The impacting instrument of claim 35, comprising at least five actuating elements.
43. (New) The impacting instrument of claim 39, wherein the actuating element comprises at least one layer of a granulate, lacquer or film coating.
44. (New) The impacting instrument of claim 39, wherein the additional element has lengthwise extending recesses.
45. (New) The impacting instrument of claim 40, wherein the material is removed along lengthwise extending recesses.
46. (New) The impacting instrument of claim 39, wherein the additional element comprises a metal.
47. (New) The impacting instrument of claim 35, wherein the impacting instrument is a hockey stick.

48. (New) The impacting instrument of claim 35, wherein the impacting instrument is a golf club.
49. (New) The impacting instrument of claim 35, wherein the impacting instrument is a baseball bat.
50. (New) An impacting instrument for action on a movable object, comprising:
  - a handling part;
  - an impact part which enters into dynamic operative contact with the object during active use; and
  - an actuating part having a length and a center and a first end coupled to the impact part and a second end coupled to the handling part, said actuating part being comprising a plurality of active elements which are arranged between the first end and the second end at predefined locations selected such that a length of successive actuating elements or a distance between successive actuating elements measured from the first end to the second end, or from the second end to the first end, or from both the first and the second end towards the center, is given by terms of a geometric series  $l * x^n$ , wherein  $l$  is the length of the actuating part,  $x$  is a number  $<1$  and  $n$  is an integer index of the successive actuating elements.